

Patent Claims

1. A bevel gear mechanism, in particular hypoid bevel gear mechanism having an output shaft (3) which is mounted in a housing (1) and which is assigned a bevel gear (7) which interacts with a drive bevel gear (8), characterized in that a single stage or multistage gear mechanism (9) is connected upstream of a hypoid stage or a drive shaft (14) can be plugged in in a modular fashion.

2. A bevel gear mechanism, in particular hypoid bevel gear mechanism having an output shaft (3) which is mounted in a housing (1) and which is assigned a bevel gear (7) which interacts with a drive bevel gear (8), characterized in that the output shaft (3) and bevel gear (7) are arranged in two parts so as to be capable of being connected to one another on an axis (A, B).

3. A bevel gear mechanism, in particular hypoid bevel gear mechanism having an output shaft (3) which is mounted in a housing (1) and which is assigned a bevel gear (7) which interacts with a drive bevel gear (8), characterized in that the output shaft (3) has an output flange (23) for adapting output elements.

4. A bevel gear mechanism, in particular hypoid bevel gear mechanism having an output shaft (3) which is mounted in a housing (1) and which is assigned a bevel gear (7) which interacts with a drive bevel gear (8), characterized in that one region of the drive unit and one region of the hypoid

gear mechanism connected thereto are divided into lubrication spaces (20.1, 20.2) which are independent of one another.

5. The bevel gear mechanism as claimed in at least one of claims 1 to 4, characterized in that the single stage or multistage gear mechanism (9) or the drive shaft (14) can be plugged in a modular fashion in one and the same central flange (13) of the housing (1) in order to mesh with the bevel gear (7) of the output shaft (3).

6. The bevel gear mechanism as claimed in at least one of claims 2 to 5, characterized in that the bevel gear (7) is provided with a shoulder (10) on which a main bearing (2.1) of the output shaft (3) is seated and supported with respect to the housing (1) and, if appropriate, a closure lid (11).

7. The bevel gear mechanism as claimed in at least one of claims 2 to 6, characterized in that the bevel gear (7) is connected at the end to the output shaft (3), in particular bolted thereto, wherein at least one shoulder (24) is provided in the bevel gear (7) and output shaft (3) for the purposes of radial centering.

8. The bevel gear mechanism as claimed in claim 7, characterized in that the main bearing (2.1) is supported on the shoulder (10) of the bevel gear (7).

9. The bevel gear mechanism as claimed in at least one of claims 2 to 8, characterized in that the bevel gear (7) is plugged in a rotationally fixed fashion onto the output shaft (3), and the main bearing (2.1) is provided between a

shoulder (10) of the bevel gear (7) and the housing (1).

10. The bevel gear mechanism as claimed in at least one of claims 3 to 9, characterized in that the output shaft (3) is constructed at one end as an output flange (23) for adapting any desired output elements, wherein a main bearing (2.1) is provided between a shoulder (10) of the output flange (23) and the housing (1) for the purpose of radially supporting the output shaft (3).

11. The bevel gear mechanism as claimed in at least one of claims 4 to 10, characterized in that one (20.2) of the lubrication spaces is formed between the sealing elements (19) located outside the main bearings (2.1, 2.2), and between the output shaft (3) and bevel gear (7) and housing (1).

12. The bevel gear mechanism as claimed in at least one of claims 4 to 11, characterized in that the other lubrication space (20.1) is formed between the sealing elements (19) of the drive shaft (3) and the drive flange (23).